

February 9, 2004

To: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572 28 Davis Avenue

Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/726,105 12/02/03

Ta-Lee Yu

IMPROVED SCR-ESD STRUCTURES WITH SHALLOW TRENCH ISOLATION

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to comply with the duty of disclosure under CFR 1.97-1.99 and 37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on February 17, 2004.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

TSMC-01-427B

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- U.S. Patent 6,172,403 to Chen, "Electrostatic Discharge Protection Circuit Triggered by Floating-Base Transistor," discloses an ESD circuit with a process involving AA, isolation areas, and silicide.
- U.S. Patent 5,012,317 to Rountre, "Electrostatic

 Discharge Protection Circuit," discloses a conventional SCR-ESD

 circuit protection device with parasitic bipolar transistors.
- U.S. Patent 5,629,544 to Voldman et al., "Semiconductor Diode with Silicide Films and Trench Isolation," discusses a diode in a well having trench isolation that has an edge.
- U.S. Patent 6,236,087 to Daly et al., "SCR Cell for Electrical Overstress Protection of Electronic Circuits," discloses an input protection device for protecting a circuit structure which is coupled to a first node, the device comprising a first lightly-doped region of P-type material with a lightly doped well on N-type material formed in it.
- U.S. Patent 5,903,424 to Tailliet, "Method for Protecting an Integrated Circuit Against Electro-Static Discharges," discloses a device for the protection of integrated circuits against electrostatic discharges.

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U.S. Patent 5,530,612 to Maloney, "Electrostatic Discharge" Protection Circuits Using Biased and Terminated PNP Transistor Chains, "discloses a device requiring ESD protection where a bias network is used to augment the diode string to distribute small but significant forward current to the diodes.

Sincerely,

Stephen B. Ackerman, Reg. No. 37761

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